SENSORMARITIME

A NEW AGE OF MARITIME SENSOR SOLUTIONS

Bridgescout

by SENSORMARITIME

INTRODUCTION OF BRIDGESCOUT®

Everyone is familiar with bridge collisions and their consequences. Bridgescout® is developed to reduce the number of collisions as well as the risk of collisions. With Bridgescout® you will increase alertness and safety aboard. Bridgescout® not only protects your vessel, but also your personnel. In case Bridgescout® detects that there is no sufficient clearance height for the wheelhouse to pass the approaching object safely, Bridgescout® will inform the captain about the potential risk of a collision by means of an alarm. This will allow the captain to lower the wheelhouse in time. Bridgescout® will notify the captain when a safe height of the wheelhouse is obtained as well. Bridgescout® offers support at critical moments and in case of an error of judgement by the captain. Bridgescout® increases safety aboard and offers you and your captain(s) peace of mind.

WHY BRIDGESCOUT®?

- ALERTNESS & SAFETY ABOARD
- DAY & NIGHT DETECTION
- REALTIME SCAN
- CLEAR & TIMELY ALARM
- PERSONALIZED (ALARM) SETTINGS

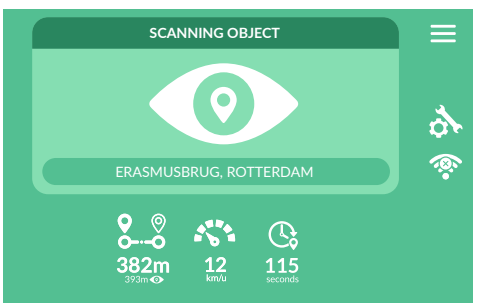
- BRIDGESCOUT® SENSOR
- BRIDGESCOUT® WING PANEL
- WHEELHOUSE HEIGHT DETECTION
- ANTENNA MAST DETECTION

- Bridgescout® Basic Pro
- Bridgescout®
- Bridgescout® Pro
- Bridgescout® River Cruise Pro

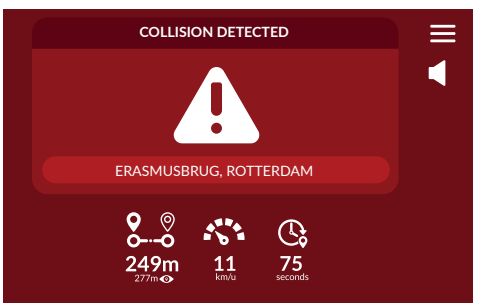
BRIDGESCOUT® NOTIFICATIONS

BRIDGESCOUT® IN STANDBY MODUS

BRIDGESCOUT® STARTS SCANNING AT A DISTANCE OF 500 METERS FROM AN OBJECT



BRIDGESCOUT® IS ABLE TO GENERATE A NOTIFICATION AT A DISTANCE OF 300 METERS FROM AN OBJECT



BRIDGESCOUT® NOTIFICATIONS

In principle, the panel in the wheelhouse is in standby mode (dark screen). Based on the screen saver on the panel, the captain knows that the Bridgescout® system is active.

At a distance of 500 meters from an object Bridgescout® starts scanning. The panel inside the wheelhouse lights up (green screen). This is where the Bridgescout® system already notifies the captain of an approaching object for the first time; alertness is an important part of preventing collisions. The brightness of the panel will be adjusted automatically based on the light conditions in the wheelhouse or can be adjusted manually at all time.

From 300 meters distance to an object, Bridgescout® is able to generate a notification. In case Bridgescout® detects that there is no sufficient clearance height for the wheelhouse to pass the approaching object safely, Bridgescout® will inform the captain about the potential risk of a collision by means of an alarm. This will allow the captain to lower the wheelhouse in time. Bridgescout® will notify the captain when a safe height of the wheelhouse is obtained as well.

Based on the preferences of our users the margin between the wheelhouse (Bridgescout® sensor) and the object will be set during the commissioning of Bridgescout® aboard. If necessary, it can be adjusted (remotely) at any time. Since Bridgescout® is a aid to minimize the risk of collisions a minimum margin of 20 centimeters will be maintained. If there is not enough clearance height to pass, an alarm appears on the panel in the wheelhouse (red screen) as well as the distance and time to the object. In addition, an acoustic alarm will sound in the wheelhouse. From 100 seconds to an object a buzzer will sound combined with a spoken alarm “Wheelhouse to high” every 5 seconds. Settings can be adjusted (remotely) at any time. If the (acoustic) alarm sounds, it can be confirmed via the Bridgescout® panel. In this way, the Bridgescout® system knows that the alarm is noticed by the captain and the (acoustic) alarm will be muted. It is possible to set the period of time and the frequency of the alarm as well. Note that a clear distinction can be made by the captain between the Bridgescout® alarm and other alarms in the wheelhouse. In addition, it is possible to activate the acoustic alarm on time instead of distance. For example, 60 seconds to the object instead of 300 meters to the object. Bridgescout® is independent of environmental factors such as height of objects and/or water levels; Bridgescout® makes a real time scan.

In case the view of the Bridgescout® sensor is blocked for more than 5 seconds by, for example, an object on the deck or a passenger, a notification appears on the panel (orange screen) as well as the distance to the object.

BRIDGESCOUT® MAP SYSTEM, GPS & INTERNET

The Bridgescout® map system is an online database of objects used by all Bridgescout® systems in the field developed by Sensor Maritime. By the use of the GPS, mounted on the wheelhouse, the position of the Bridgescout® system is determined. Data of the Bridgescout® sensor combined with data of the Bridgescout® map system and GPS enables Bridgescout® to know when to start scanning. So, the Bridgescout® map system including filters combined with the GPS prevents superfluous alarms. Bridgescout® does not require an internet connection to operate. However, if remote assistance is needed or there is an update of the Bridgescout® map system an internet connection is required. Therefore, a (fixed) internet connection is needed.

BRIDGESCOUT® MAINTENANCE

Bridgescout® requires maintenance once every 12 months. This includes an inspection of the Bridgescout® system aboard by one of our engineers and an exchange of the Bridgescout® sensor for calibration.

BRIDGESCOUT® MANAGER BY SENSOR MARITIME

The Bridgescout® manager, a web interface, used by Sensor Maritime, is developed to log and analyse all Bridgescout® systems in the field to optimize the Bridgescout® system and to monitor the status of the on-board systems proactively.

BRIDGESCOUT® BASIC

In case of Bridgescout® Basic there will be no real time scan. Nevertheless, it will notify the captain of an approaching object since the panel inside the wheelhouse lights up at a distance of 500 meters from an object. Alertness is an important part of preventing collisions.

Note In case of a question and/or remark the captain has the possibility to add a comment via the Sensor Maritime hub, which will be sent to the Bridgescout® manager (in case of an internet connection). Sensor Maritime will contact the captain for more information.

SPECIFICATIONS

OBJECT NOTIFICATION 500 METER
BRIDGE COLLISION NOTIFICATION 300 METER
HEIGHT DEVIATION AT 300M MAX. 10 CM
LASER CLASS 1
SIZE/TYPE 10.1” TOUCHSCREEN
RESOLUTION 1280 X 800 PIXELS

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